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AN INTRODUCTION TO SIGNAL TRACING. PART II ..

PART II ..

By Frank Cross VK2FX .

It would be useless to give a constructional article on how to build a Signel Tracer, complete with a list of parts and a point to point description of the wiring because parts are so burd to obtain that duplication of my own tracer would be practically impossible. Anyway what thus Ham follows a constructional article? He usually uses gear which he has on hand and recessions to suit his own ideas, so all that will be attempted in this article will be the requirements of the Signal Tracer, and a few tips so that you may avoid some of the woe that has been mine.

A Signal Tracer is a turse vectum tube volt meter. It can be of the T.R.F. or Superhet variety and is no more difficult to build then a T.R.F. or Superhet receiver. As it is a tuned YVVM it is essential that it cover the frequencies that you desire to measure and listen to, so if you are interested in servicing DOL measures your tracer should cover all the frequencies the receivers cover including the S.W. range, say from 15 to 50 Mc., and the 1.F. ranges (175 and 485 Mc.) to be of maximum benefit. It is not necessary of course to cover all these frequencies to make a very useful instrument, for by only covering the DO ban and up to 400 Mcs, you can use it on shout 90% of the DO supers are if you do strike a DW sat and you know the BC range is working correctly you are well on the way to locating the trouble.

Figure 1. shows a circuit mutable for a Signel Tracer of the T.R.F. variety. Coal switching or plug in onlis can be used, but I will leave that to you. In my case, as no suitable coil switch was available "H type coils, condenser and dish were used for the 36 band and .00025 mica condensers shunted by trimmers were switched across the gang tuners to enable the 465 kc. I.F. band to be covered.

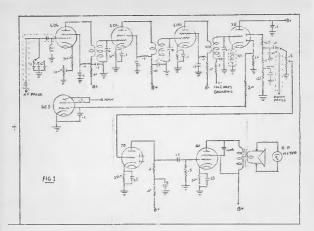
The first tube circuit requires explanation. The probe lead is a piece of low expectly microphone ceble, the shield of which is grounded to the tracer chassis to prevent pick up from any part of the first grid circuit other than at the test probe point, which is coupled to the centre lead of the cable through a small capacity in the vicinity of 1.5 mmff., situated right at the probe end of the cable. This small capacity at the probe point and the capacity of

te cable a destructured of control from a signal divider which is independent of freenance. Negarinate by U.c. 2. say the capacity of the series probe conformer by is one smift, and the entire grid circuit expects including the cable is some lost of 90 mmf; then if a 100 meroword is small was placed across the points AS, only one microvolt rounds appear at point "", as the expective reactance of 20 is 90 times greater at any fractions than the especialize reactance of the great crowning.

Your we to use these capacities in our tracer we would not only on summing that to a great at the mix of the first hube in the tracer. For this treason the tre time attempt a supplification between this stand and to detector are recommended, if it is "estre" to measure the stage gain of the first tube in a recover.

If a greater capacity is used in series with the probe, a greater simal will amount at the grid of the first tube, but the detuning of the circuit under test will be too great, therefore a number capacity of not greater that 2 mms is recommended.

Notemaing to Min. 2, let us accortain the values of condensess (1, 62, and 63. As for that to use these capacities to reluce the signal in stops of ten, (1, will have to increase the total capacity of the guid circuit, e. to 909mm? and 62 am 63, to 909 mm? and 9999 mm? respectively. This will allow us to attenuate the signal in convenient stops. To veriable active relation in the first tube circuit is calthurbed from 0 to 10, and by rotating this signal appearing at the detector will vary as though the attenuator state were being used. Sins will nevertee the attenuation and we will then be able to vary the attenuation of the signal form 100 times to 1,000,000 times in convenient stoms.



Actually we connect the 100 attenuation in the probe lear, and call it attenuation from 0 to 10,000.

As very fow ame, if any, have at their disposal a brudge capable of measuring these capables, we are forced to use out and try motions. Even so, a fairly good job can be done and won may be edged by starting where I finis et. After trying rany combinations, I as using about two incess of tristed sooning way as the source pobe confenser, three feat ef. 10d microphone capids as the leaf and .001, .01 and .1, mf.s. as CI, 62, and CS, respectively. A full rotation of the gain control rives cracitly the same variation as often of the first two confensers, but the .1 confenser attenuable to signal too much. If her not been possible to the present time to obtain 1 confensers in various brands, to try, but you may be lucking than I. The mande wall on the confensers vary constrainably from their real value, and sowerel .01 confensers were trief before striking a soward old thing that was to wish a thought from their real

with first tube and two attenuator circuit couls be fitted to any recover which has some means of comparing aignal attenuates, an eye or an output meter, so that opens up possibilities of using your an august between so in receivers that cover the 3.7, bands. Another possibility is to use this attenuator steps to feed into the relations as soom in the eigenit complete with the use inflictory but leaving out the two tunes? Attaco, to track down trouble in the significant of the feed on the covered is all that is needed, as the transmitter will put in enough signal ratious amplification to work to reduce faturing of the transmitter will put in once it is all that is needed, as the transmitter circuits under test and still have planty of soup for the transmitter circuits under test and still have planty of soup for the transmitter circuits under test and still have planty of soup for the transmitter circuits under test and still have planty of soup for the transmitter circuits under test and still have planty of soup for the transmitter circuits under test and still have planty of soup for the transmitter circuits under test and still have planty of soup for the transmitter circuits under test and still have planty of soup for the transmitter circuits under test and still have planty of soup for the transmitter circuits under the transmitter circuits and the transmitter circuits a

As the T.R.M. stards are conventional no comments will be made about them, except to say that you can have one or two stages and still have a uneful tracer. I have only one stards as the only condition available was a two gang. If you can get a times gang from an antique doaler by all means use two two stards.

The detector circuit is somewhat unusual. It as been recently 'evaloped in the States with the idea of using a high impedance detector of not leading an' tuning circuit, thus adding the solectivity and tracking at the same time, and allowing us to use an eye. The R.". Cokes in the cathode circuit should be effective over the freedometers tuned and preferably suitabled. Use 100 volts for the target of the electric eve, with a .5 magoin resistory between the target and plate. Unfor these conditions the eye will close with about 3 volts bias anstead of eight. The other sensitivity and life of the eye will compensate for the reduction of flourescent glow with the lower voltage.

The andic end needs no explanation, but the greater the sensitive the better. You can make it to such your needs. You persecute use one stage feeding into a pair of cams, and you could do are y with the output meter eye, and just use the audio probe writted to the clode position, as an awio voltember. In fact you can make a tracer just as close or just as expensive as you like and

(Continued on page 73.

101 OF SHORT TAV: COILS

From an article by r. P. C. Michael, G. .. Company, V.S.X.

Them a voltage is infueed in the coil of a tuned circuit at its resonance freewoor, a muon greater voltage is doveloped across the coil and condensor, naving to the infueel voltage the same ratio as that of the reactance of the coil (or the condensor - both being equal) to the resistance of the coil and condensor. This ratio has been termed 0, and for a tuned circuit.

1 1 1 1 1 1 1 1 1 1 1 2 Bandansan

Natio freewency oscillators require coils of intel for effliciency and freewency at bilty and timed amplifizers need tiem for gain and selectivity. It is therefore desirable to know the optimum size and shape of coils for maximum 0 and the degree to which porformance falls off with their variations as well as the relative morits of different delectrics available for support.

In a my high frequency coil there are two sources of lesses having the effect of raising the effective resistance of the coil the Metallic lesses and the relectric Lesses.

M. TALLIC LOSSES

S.LWR SISTANC ... the effective resistance of a conductor at high frequencies is greater than its direct current resistance because alternating magnetic fields cutting the conductor make the current distribution non-uniform.

1. SEMI Now. .. In an isolated long, straight cylindrical conductor the high frequency current is concentrated toward the periphery. Mor frequencies above about 15 Mcs the effective resistance may be shown to be approximately

.056 V 10-5 fr

where: - f = cycles / second r = resistance in o'ms / cm and the magnetic permeability is unity.

If the form factor (lengt flameter) and the winding space factor (vire diameter, pitch) are held constant, it can be shown from the skin effect formula , and the unual inductance formula for single layer solenoids, that in the frequency region where skin effect is prominent and neglecting colling effect are fishecture less the ratio inductance, effective resistance (or a.) is proportional to each size and independent of the number of turns.

2. COLLING MY 68. Then a conductor is in the field of other conductors, the current distribution is still further disturbed, and in a coll the resistance is raised above the skin-effect value by an amount depending upon the number, product and direction of the other conductors. It is found that colling effect at high frequencies is mainly dependent upon space factor.

coiling offest = [1+A (d b)]

d = wire diameter

p = winding pitch

and A is a function of coil shape and number of turns. A value of 2 may be used for soort wave coils. Whom the too formulae above, it is found that optimum wire diameter for short wave coils is approximately 0.7 times the pitch. Then it is not possible to work to this flaure a less contens error is introduced by using wire too large. Until the wing be too small in diameter.

3. FAS . The circuit leads including the metallic path of the current in the condensor also add resistance due to skin effect, but coiling effect is not important accept in the embreme UHF ragion.

4. CAPACTEY AN COIL . When the frequency approaches the natural resonance value of the coil the current varies from turn to turn due to the capacitative current across turns and thus upsets the basic skin-effect and coiling effect relations, but as coils usually have a natural resonance frequency well above the operating frequences stiffs may be neglected.

Metallic Looses are caused by hea t dissipated in shields etc by induced ourports. Siese effects may not be produly calculated and are usually minimised by knoping the coil clear of saileds and other metallic objects by a distance of one or tro coil diameters. Amy parts which cannot be kept away from the coil may be allowed or copper plates.

.. TIL CENT LOSS S ...

El E. COIL . the invulating supports for the coll cause losses because they are a dislocatic froming part of the distributed capacity of the coil. This effect is minimised by using only low power factor dislocatics in the field of the coil, and as little of them as practicable.

M W 1 001 28 %. At broadcast frommencies the losses in the condensor are nogligible, but at high frocuencies this does not hold and the condensor losses frommenty become greater then those in the coil. Condensor losses may be minimised in the same manner as set out above for dielectric losses in the coil. RA IATION R.S. STANG... Mogligible at low and high frequencies, losses duit to radiation from the coll become serious only at extreme ultra-ligh frequencies.

CONCLUSION... The following conclusions were reached from measurements of 0 taken on various calls at frequencies between 15 and 30 mc/s.

At frequencies above 15 Mc/s the O of a tuned circuit is dependent as much on the condenser as on the coll.

601.0 appears to be meanly proportions 1 to coil diameter, but with conventional tuning condensors increasing the coil diameter from one inch indefinitely would improve the circuit 0 by less tan 2 to 1

Optimum coil shape factor is of the order of 1

Optimum wire diameter is of the order of 0.7 times the winding pitch, but a reluction to 0.5 results in a decrease in 0 of only about 5 per cent.

Polystrone and acrylate composition grooved froms provide compact coils which with a conventional contensor at 20 Mays gives a tuned circuit 0 of 200, and with plemolic composition grooved forms about 170.

Using a conventional type of high-frequency concensor (rith cormic insulation) and coils supported on groover forms of local loss material an overall circuit 0 of 550 is practicable at 15 to 50 Me/s with coils of one inch dia meter and length.

(Continued from page 4)

there can be just as much variation in tracers as there is in Ham receivers or transmitters.

ont try to use skielded hook up were as the MP probe lead, as the ca pacity is too high. You may get away with hook up wine in some large tubing covered with skielding similar to that used in cars for the a crial lead-in, if no mike cable is obtainable.

on't use an ordinary diods detector if your tracer is of the E.R.P. variety unless you want it to be as broad as a barn door.

non't neglect to have a go at ma king a tracer. The time you spend in building one up will be repaid, when you mant to get your junk pile on the air in a hurry.

.....

In base days of conservation and preservation, it might interest those meticulous amateurs and others no thim up old soldering jobs with a small-cut file, and who fine that the file fills with solder. The solder can as ally be removed by solding the file in lead solvent such as used by riflemen. After using the solvent the file social be brushed brickly with a ctiff brushed brush.

THE MICAL LIBRARY

A page of book reviews conducted for the benefit of lams in the Services, and others similarly situated

STORY TAVE VIR LESS COMMUNICATION (including U.K.F.)

This is a book which while technically excellent in many respects, is open to critism for its sketchy treatment of some of the subject matter and for its happazard make-up.

Commencing with an historical introduction, which incidentally pays a tribute to the Ma ms for their early Short "ave work (and imores their more recent Will work) it then turns to Modulation and Ligh Proquency Taves, Propagation, High Proquency Moeders, Aerials and Aerial Arrays. Yen follows Pust-Pull, Power Amplifiers, Oscillators and Constant Prequency Oscillators, Electron Oscillators, Modulation Circuits, Problems of Reception and commercial Receivers (consisting of a description of a Marconi Co super letrodyne, a very conventiona 1 one at that !.

Finally, Commercial Wireless Telephone Circuits, Commercial Transmittors, and .P. Therapeutic Apparatus are dealt with. Bost Chapters are those on acrials, Constant Procuency Oscillators and Modulation Circuits.

This book has obviously been written for engineers dealing exclusively with commercial communication systems, and the coauthors are two such engineers. We taink this a pity, however, that such a work should be interspersed with so many free adds for the Marponi Company. Thile we realise the fine work tais organisation has done and ave the createst of admiration for its late founder, we really feel that the Marconi Go is sufficiently well known to survive and continue to grow great without continual mention throughout the pages of that should be a purely technical work.

In conclusion we take the authors to task for their statement that the design of commercial receivers calls for the highest possible sensitivity because of the reduction of power of commencial transmitters to the barest minimum." We are well aware that regulations require minimum power for the particular purpose, but surely Messrs. Ladner and Stoner ave leard of those "V" weels witch for the past 20 years or so have so uselessly cluttered up the ether with high power.

However, if you want a book which, whatever its shortcomings in a non-tochnical sense, is technically very sound, and is written with special application to Short Wave work, this is it.

Short Wave Wireless Communication, by Ladner and Stoner 4th Edn. (1942) ... 573 pages ... 57/-Our copy by courboay McGills Newsagency.

> Alec . Clyne - Review Editor. - X - X - X -

SLOUCH HATS and FORAGE CAPS.

As our Yank Cousins say..., What do you know???...woll, you are to those notes, I know, just to give you all a nice haw" piec of news to start the month off with,

Incidentally, those "winges", see some crude lade...these "means" says these, who remember a few faroff lessens in politoness to old ago...or these "pleas" as gentlemen and others have it...they must be pretty touching, no doubt due to the early hour in the morning at which they are born, for October's effort touched a guilty conscience way off in London, "G". So Maurico Lusby, one Wiczmy who is mixed up with Scientific effairs one way and another, used the Air Mail and the modern Airgraph and just missed the Pobracry issue.

ZWN has been away from Aussize for nearly two years spending a good deal of it in America and now in England. Sqd. Leader VR2OR Aburto Erown is also working with him at the moment while a third VR2 Ian Cuffe ZXC a Lieut in the RHVR is a pretty constant visitor at their flat, ZXC is one of those rero brids... A Bam with a Commission in the Navy, and should have some good stories to tell the VR2 Division after the War, not to mention what the two Morries will be able to let some light in on. Hi The last paragraph of ZWN's letter I will quote "Just moved into a new flat, but not sure its a good idea. I had eight Steel-concrete stories above me at the last pase...only one above me here. Didn't occur to me till we had a raid the other night"...so I wender what Mourie's been thinking since the second "Diltm" wot a go on??? Hi

Qra for "Snow" Campboll , VK3ME, (as if we all don't know his call, sor the mob...) Campboll M.R. Sgt. 9190 RAAF. Kriegsgofangonennummer 29904...Stelag Luft III...(ViiiB)...Germany. It's in Poland so GSYL says, who kindly sent the news por Airgmaph. So when you got a spare moment, remember a card to Snow will be more approached than the best bit of DX he over raised in the "good old days". The "Dis" soem to give the mailman a better chance than the little yellow mon do, But they will no doubt commonee to be "Hen.," men very soon now, by the looks of thines. Hi

WX30F just about finished his 26 days leave down at Hampton, and not a blade of grease queton-when flawn yet, so I hear, Wilf ZALF now wandering around up North on another cruiser, keeping the Admiral company, but hopes to join 309 again soon.

Captain Don. B. Knock is still down in Vic and is just about a VXS he has been there so long. At the Staff Corps Meas there is usually a gathering of hams representing almost all the Status and the topic scener or later is always what they are going to "do after the War." Bare you docided how to run a Federal Institute yet, ome? And, Don, just say, "Notee" to Johnny Traill for me...thanks ever so much.

Charlie Millor, I mean Sgt. Millor onco WEGADE is now at Amborloy after a couple of quick shifts around. Is Charlie was originally a WK4 no doubt this posting suits him pretty well. What a pity those ZLIs got away on us Charlie (276).

Concord Jam Stovens VKSZK has been sponding a spot of leave in his how; town, Jvan Wall. Sponds his working hours belying to keep the "Cata" in the tire semewhere up North. Has had those two stripes for some time now-parkaps there is another in the offing.

Sgt. H. D. Acklank EX 26:38 of the Just. Spc. Wincloss Group once will known as VEZX arises out of his "grandfathorly" sloop and after a few years (measures to is up Brishen way. Harold, om, such shocks are not yoo! for me, in my old age. I say where is that Command or the midd was "just round the corner" in the circular they said as all. Aid you say it was 3 years and 8 months age. Verily, on has to be very careful of advertising. Hi!

Loading Telegraphist Ken Allon RANE (hope I have those all important initials right) lase at least mension to got a few works how loave and turned up at the Victorian Division where he entertained the rat of the case with the story of now of his doings over the past few years, including the "true" story of those famous meters!

Another ham to turn up at the January mosting of the VKS Division was Gapt. Jed: Vanton VKSKR of an AIF Artiller unit. At that time he was on loave from MCS up "Divid way." Jack sport some time in the Middle East and a though his job is not a radio one, we believe, he was able to turn on a domenstration of considerable value to the Sigs section.

WATE Sqt. Fred Smith else turned up at the WAS Annuary meeting, the was his first home heave after eighteen months in the West where he sport most of his time training prospective signallers. He has now been trainferred to a Sig. Training School at Bonegille...maybe he is now training ANAS.

VKSGG. Sgt. Roth Jones RaAF is now spending his time up in the Gulf country.

VKSMJ Sub Lt. D.J. Medley R.KR is stationed in Sydney and from the had to say at the Fob meeting of the Vic Division, he manages to see quite a bit of the Karbour...Don't forget the VK2 Division meetings on the third Thursday, om...20.

Phiot Officer Gordon Temploton VK30W is another of the original REAF Reserve boys who has been on the job since September 1759.

(Continued on page 14)

DIVISIONAL' NOTES.

ICW SOUTH WALES DIVISION

The 34th Annual General Meeting of the Division was held at Y.M.G.A. Duildings on Thursday 17th February and the attendance was representative of all sections of the amateur community.

The ...nuel. Report was unanimously adopted and Council was congretulated upon their work over the past rear. Some considerable discussion took shace regarding the surrestion of an .ustralian W.J.k. with a permanent staff similar to the R.S.G.R. and ...R.R.L. Elembors were of the opinion that immediate consideration should be giver to this matter and that Pederal Headquarters should obtain an expression of opinion from all States.

A rethor interesting letter from H. J. Teylor VESTO regarding the possibilities of using Radio in connection with Rush Eire Swigdos was the subject of no little comment particularly as Hombers were informed that the matter had been taken up with N.E.S. and that body was interested. It is hoped that further information will be available in time for the next General Meeting. Every offort is being mare to interest the powers that be and if the scheme comes into operation it will present country members of the E.C.N. With their long awaited opportunity. 2De please note!

During the past few weeks quite a few members have queried the possibilities of helping some form of corpst that would ombree the building some form of corpst that would ombree the building of equipment other this transmitting apparatus that would be of value in the post war knatuur Station. Soveral suggestions were pat forward as to the form this Contest would take and it was decided that the Contest would be held and that ortails would be finalised at the next meeting. One suggestion that will be adopted was that a prize be given for an essay on "Post Wer "matteur Radio."

During the evening the poll was declared for the election of Council for 1944 and was as follows:

	G. Ryan Fryar	VK2TI VK2NP	63 57		Cole Miller	AKSDI	28 28
R.	Priddle	AKSB4	56			VL2JN	27
H.	Peterson	AK5Hb	54	C.	Higgins	VK2LO	17
F.	P. Dickson	VK21.FB	52	H.	G. Wilson	n VK2AGO	12
E.	Hodgkins	VK2EH	45				

Seven Councillors were to be elected and from the above it will be seen that Yosars, Cole and Willer tied for seventh place and it was decided to place both names in a hat and a draw be made with the result that G. Cole, VEEDI gaired seventh place.

The various Office Bearers will be elected by Council at its first Meeting after the Annual General Meeting.

At the conclusion of General Rusiness a general discussion took place dealing with "The Pooding and Hotetion of Three Element Boams" and one of our new Members, Mr. Ken Davidson dealt at some length on the mechanical aspect of the subject.

The next General Moeting of the Division will be held at Y.M.C.A. Fulldings on Thursday 16th Merch and the main item on the Agenda will be the proposed Contest. If you have any ideas, come along and put them before the Meeting.

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EMERGENCY COMMUNICATION NETWORK

The Compatition for the E.C.F. Cup (Second Sories) is now retainly nearing completion. The degree of efficiency attained by each station is very heartoning to the organisers and from this angle alone the content has justified its inception. There is so little difference these days between any station that the Committee are forced to pick on the slightest error as an excuse to deduct points. The exercise just concluded resulted as follows:-

VL2J, VL2JE each 198. VL2JC 197. VL2JL, VL2JK each 195, VL2JF 194 and VL2JF 193. It is very pleasing to see VL2JE sharing the honors this month. This station presented quite a few difficulties until the last few months both from a technical and an administrative angle but these hurdles have now been covered. VL2JE would also have shared the load this month but for "VK2AJW please note - the "kindergartnu" type of messages transmitted over two week-ends and a desire to enter into acrimonious discussion over the week-ends and a desire to enter into acrimonious discussion

Here are the aggregate points to date :-

VL2JC	909	VL2JL	880
VL2JJ	907	VL2JF	854
VL2JK	888	VL2JE	714
VL2JP	888		

March should see a very interesting tussle between VL2JC and VL2JJ. I wouldn't try and pick the ultimate winner!

As pointed out in previous issues N.E.S. intend to make greater use of the E.C.N. in the very near future. In the past Radio Practices have not been co-cadinated with these of other Sections of the N.E.S. All this will be altered. It is enticleded that Radio Stations will, in future, practice on the same

nights as the District Controls to Which they are attached.

This will mean that stations will practice as follows :-

Tuesday Night.			Thursday
VL2JD VL2JK	1	1 10	ATSIE
VL2JP			· VL2JF

During that week in which the third Thursday falls, all stations will practice on the Tuesday night. It is not known yet when this scheme will come into operation. Although there are only 5 D.A.O's there are no loss than 69 municipalities and all these practice nights have to be co-ordinated.

All Operators will join in extending sympathy to both Messrs.

Arthur Springett VECOM and George Shelley VECOF who both suffered
bereavements in recent weeks through the loss of their mothers.

..........

POST WAR AMATEUR RADIO.

What are your views regarding this all important subject? Do you think that Amateurs should be granted the same privileges as in pre-war days? Do you think they should be restricted to operating on the higher frequencies? Should power be limited to 60 watts or a kilowatt or is there a happy medium. Do you think the first tuto should have a permanent self. Do you think all Amateurs should belong to the W.I.A. What are your ideas of the post war Amateur Station? Do you think that Sorvice and Civilian Dofence Resorves should be organised and maintained by means of a Government subsidy. Do you think that the P.M.G. should west in the W.I.A. the control of Experimental add to a larger degree than they did in the past.

In an endeavor to find the ensures to the above questions and of course many others dealing with Post War Amatour Radio, the New South Wales Division of the Institute has decided to offer three One Pound War Savings Cortificates as Prizes for the best essays received on this subject. Essays will not be restricted as to length, but if possible should be typed. The Competition is open to all amatours in Amatourial. The definition of an Amatour is a presen who is interested in Experimental Radio. In order to give Servicemen an opportunity of forwarding entries the Competition will close on 18th May 1944 whilst all other entries the Competition will else on 18th Coth April 1944. Entries should be addressed to Federal Secretary, W.I.A., 21 Tunstall Avenue, Kingsford N.S.W. and endersed "Essay Competition".

The winning Essays will be published in "Ametour Radio." The judges, whose decisions are to be regarded as finel, reserve the right to increase or decrease the number of prizes dependent upon the number or morth of the essays received. Remember the Centest will close on 20th April 1944 for all Ametours other than Servicemen and 18th May for Ametours on Service.

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VICTORIAN DIVISION

Since Christmas the Victorian Divisional Council has been very busy in exploring the possibilities of establishing a Radio Communications Net to act in conjunction with the Fire fighting authorities.

on New Mear's Eve following a report in the dealy press that there was lack of manpower and communications, Council contacted the Forests Commission offering the services of operators and where possible equipment. This was per telephone, two days later a letter was forwarded confirming the Johns offer.

Following the disastrous fires in the Western District, Council received a telegram signed by various Western District hass. The main text of the telegram read:—"Meeting of Western District Bush Fires Association unenimously adopted suggestion Ama tours co-practe radio communications fight bush fires. Request Institute assistance," Immediately two representatives of the Victorian Division contacted responsible State authorities and received every encouragement, which resulted in the attendence of representatives at a meeting of one of the fire fighting bodies, where the scheme was explained in detail by the aid of maps.

This body were very enthusiastic in the scheme, and it was garbered that they were working on a big re-organisation scheme into which the radio network would prove of utmost value.

To date nothing further has been heard by Council. This of course was anticipated, and Council is very hopful that the authorities will see the value of the service that the Institute can offer.

Members interested in the re-formation of the Western Zone are asked to contact George (Tim) Wells... VK3TW... Ramilton.

..........

Enlisting as ACI, Gordon sport four years in Melbourne at RAAF HO Sigs, and later was for a time at Melbourne W/T station. He received his Commission in October 143 after being through all the ranks, and is now serving with GHQ in Briobane.

And lastly here is the story of the "homest Ram"...pparently such reality does exist...but I have yet to meet it. Hi "it appears he was told by a 4.M. to take some Radio goar out of the said QM's way, and, under the impression that he was meant to take the goar to his unit the homest hem transported the goar and reported game to his C.O. Too late, also, he discovered the QM meant that our homest ham could have the gasr himself"...wouldn't it?...So be careful, all ye who may be thinking of reforming.

Lastly the QRA is 78 Maloney Street, Eastlakes...tho iphone number is MUID92....and why the heck more notes don't arrive is because you are a lot of lawy so and sos...Hi

These notes nearly didn't appear this month Ed.)

THE WIRELESS INSTITUTE OF AUSTRALIA



Divisions of the Wireless Institute of Australia exist in every State of the Commonwealth. The activities of these Divisions are co-ordinated by Federal Headquarters Division, the location of which is determined from time to time by ballot,

Present location of F.H.Q. :- New South Wales Federal President: F. P. DICKSON, VK2AFB.

Vice-President: H. F. PETERSON, VK2HP. Federal Secretary: W. G. RYAN, VK2TI.

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